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LC-MS and UV study of 3,5-di-tert-butyl-4-hydroxybenzyl acetate transformations in alkaline meidum

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Abstract

Transformations of 3,5-di-tert-butyl-4-hydroxybenzyl acetate in alkaline medium include not only dimerization of unstable intermediate 4-methylene-2,5-cyclohexadienone but also dehydrogenation of phenolic compounds by the action of 3,3′,5,5′-tetra-te-t-butylstilbenequinone to give mesomeric anions. This process is responsible for coloration of polymeric materials.